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Alexandria, VA 22313-1450 on December 23, 2003

Name of Registered Representative:

John C. Freeman
John C. Freeman, Reg. No. 34,483

December 23, 2003
Date of Signature

PATENT
CASE NO. 56/414

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:)
)
Norbert Huber et al.)
) Group Art Unit: 2836
)
Serial No.: 10/656,924)
) Examiner: unassigned
Filed: September 5, 2003)
)
For: CHARGING CIRCUIT FOR A)
FREQUENCY CONVERTER)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with Applicants' duty of disclosure under 37 C.F.R. § 1.56 and in conformance with 37 C.F.R. §§ 1.97-1.98, Applicants hereby submit the following references for consideration by the Examiner. Copies of the references are enclosed along with a completed copy of Form PTO-1449.

I. DISCLOSURE

A. U.S. Patents

<u>Patent No.</u>	<u>Inventor</u>	<u>Issue Date</u>
6,388,906 B1	Ferstenberg	05/14/02
6,603,672 B1	Deng et al.	08/05/03

B. U.S. Patent Application Publications

<u>Publication No.</u>	<u>Inventor</u>	<u>Publication Date</u>
2003-0067303	Huber et al.	04/10/03

C. Foreign Patent References

<u>Reference No.</u>	<u>Country</u>	<u>Publication Date</u>
195 08 348 A1	Germany	09/12/96
197 41 300 A1	Germany	03/25/99
101 55 182 A1	Germany	05/29/02
101 48 740 A1	Germany	04/17/03

II. DISCUSSION

A. U.S. Patent No. 6,388,906

The '906 patent reference was cited as an X-type reference in a Search Report for corresponding German patent application 102 41 036.4. An X-type reference is pertinent when taken alone.

B. German Reference No. 195 08 348

Based solely on the drawings and the enclosed English language abstract, the '348 patent reference is pertinent because it appears to disclose a bridge rectifier network having three

thyristors, controllable by a pulse generator, and three uncontrolled diodes. The '348 patent reference was cited as an A-type reference in a Search Report for corresponding German patent application 102 41 036.4. An A-type reference is not considered pertinent to patentability and provides technical background.

C. German Reference No. 197 41 300

Based solely on the drawings and the enclosed English language abstract, the '300 patent reference is pertinent because it appears to disclose a circuit arrangement to charge a condenser for a converter containing a fan motor with at least one motor winding assigned to at least one rectifier branch. The '300 patent reference was cited as an A-type reference in a Search Report for corresponding German patent application 102 41 036.4.

D. German Reference No. 101 55 182

Based solely on the drawings and the enclosed English language abstract, the '182 patent reference is pertinent because it appears to disclose a system that has two power conversion stages, one stage selectively rectifies a signal and the other stage selectively modifies the frequency of the signal. It is believed that U.S. Patent No. 6,603,672 corresponds to the '182 patent reference. The '182 patent reference was cited as a Y-type reference in a Search Report for corresponding German patent application 102 41 036.4. A Y-type reference is pertinent when combined with one or more Y-type references.

E. German Reference No. 101 48 740

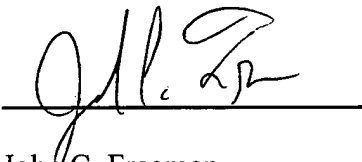
Based solely on the drawings and the enclosed English language abstract, the '740 patent reference is pertinent because it appears to disclose a method for fault monitoring for a power rectifier drive, wherein a switch for connecting a current rectifier to a voltage source is only

activated when the potential of a capacitor terminal changes by a preset amount. It is believed that U.S. Patent Application Publication No. 2003-0067303 corresponds to the '740 patent reference. The '740 patent reference was cited as an A-type and D-type reference in a Search Report for corresponding German patent application 102 41 036.4.

III. CONCLUSION

It is believed that none of these references, alone or in combination, disclose or suggest the invention claimed. However, Applicants wish to make it clear that the disclosure of the above references is in no way an admission that they qualify as prior art. It is Applicants' desire, however, to have these references available in the record for both the Examiner and the public to see. Applicants therefore request that the Examiner review the entire disclosure of each reference and make the above-listed references of record.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "J.C. Freeman", is written over a horizontal line.

John C. Freeman
Registration No. 34,483
Attorney for Applicants

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Dated: December 23, 2003



FORM PTO-1449	SERIAL NO. 10/656,924	CASE NO. 56/414
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	FILING DATE September 5, 2003	GROUP ART UNIT 2836
APPLICANT(S): Norbert Huber et al.		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A1	6,388,906 B1	05/14/2002	Ferstenberg		
	A2	6,603,672 B1	08/05/03	Deng et al.		

REFERENCE DESIGNATION U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A3	2003-0067303	04/10/03	Hubert et al.		

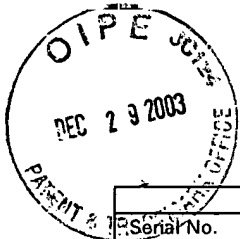
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
	A4	195 08 348 A1	09/12/1996	Germany		Yes
	A5	197 41 300 A1	03/25/1999	Germany		Yes
	A6	101 55 182 A1	05/29/2002	Germany		Yes
	A7	101 48 740 A1	04/17/2003	Germany		Yes

EXAMINER INITIAL	OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.
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EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



TRANSMITTAL LETTER			Case No. 56/414
Serial No. 10/656,924	Filing Date September 5, 2003	Examiner Unassigned	Group Art Unit 2836
Inventor(s) Norbert Huber et al.			
Title of Invention CHARGING CIRCUIT FOR A FREQUENCY CONVERTER			

TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is Transmittal Letter (in duplicate); Information Disclosure Statement; PTO 1449 along with seven (7) cited references; Postcard Evidencing Receipt.

- ☐ Small entity status of this application under 37 CFR § 1.27 has been established by verified statement previously submitted.
- ☐ Applicant claims small entity status. See 37 CFR 1.27.
- ☐ Petition for a _____ month extension of time.
- ☐ No additional fee is required.
- ☐ The fee has been calculated as shown below:

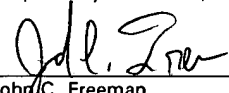
	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra
Total		Minus		
Indep.		Minus		
First Presentation of Multiple Dep. Claim				

Small Entity	
Rate	Add'l Fee
x \$9 =	
x 43 =	
+ \$145 =	
Total add'l fee	\$

Other Than Small Entity	
Rate	Add'l Fee
x \$18 =	
x \$86 =	
+ \$290 =	
Total add'l fee	\$

- ☐ Please charge Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE) in the amount of \$ _____. A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of \$ _____ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this communication or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
- ☒ I hereby petition under 37 CFR § 1.136(a) for any extension of time required to ensure that this paper is timely filed. Please charge any associated fees which have not otherwise been paid to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.

Respectfully submitted,



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